

Ohio

Science and Engineering Profile

	STATE	U.S.	Rank		STATE	U.S.	Rank
Doctoral scientists, 1995	15,710	453,928	9	Total R&D performance, 1995 (millions)	\$5,314	\$177,210	10
Doctoral engineers, 1995	3,950	86,738	5	Industry R&D, 1995 (millions)	\$4,001	\$130,332	11
S&E doctorates awarded, 1996	1,094	27,230	7	Academic R&D, 1996 (millions)	\$656	\$22,481	11
of which, in engineering	28%	23%		of which, in life sciences	52%	56%	
in life sciences	22%	25%		in engineering	27%	16%	
in physical sciences	17%	14%		in physical sciences	9%	10%	
S&E postdoctorates, 1996	1,042	37,019	12	Higher education current-fund expenditures, 1995 (millions)	\$6,813	\$182,602	7
in doctorate-granting institutions							
S&E graduate students, 1996	20,638	430,631	6	Number of SBIR awards, 1990-1997	908	31,155	11
in doctorate-granting institutions				Patents issued to state residents, 1997	2,715	61,699	7
Population, 1997 (000s)	11,186	271,464	7	Gross state product, 1996 (billions)	\$304.4	\$7,677.4	7
Civilian labor force, 1997 (000s)	5,710	137,564	7	of which, agriculture	1%	2%	
Personal income per capita, 1997	\$24,661	\$25,598	22	manufacturing, mining, construction	31%	23%	
Federal spending				transportation, communication, utilities	8%	8%	
Total expenditures, 1997 (millions)	\$50,707	\$1,405,060	8	wholesale and retail trade	16%	16%	
R&D obligations, 1996 (millions)	\$1,684	\$66,087	13	finance, insurance, real estate	15%	19%	
				services	18%	20%	
				government	10%	12%	

Rankings and totals are based on data for the 50 states, D.C., and Puerto Rico.

Data on S&E postdoctorates and S&E graduate students include health fields.

Federal Obligations for Research and Development by Agency and Performer: Fiscal Year 1996

[Thousands of Dollars]

	Total	Federal Intramural	All FFRDCs	Industrial firms	Universities & Colleges	Other nonprofits	State & local government	State rank
Total, all agencies	1,683,664	587,005	0	701,481	317,554	74,981	2,643	13
Department of Agriculture	15,204	6,836	0	0	8,353	8	7	32
Department of Commerce	19,243	95	0	17,608	1,233	307	0	13
Department of Defense	829,974	288,021	0	488,218	43,702	10,033	0	12
Department of Energy	20,248	259	0	12,895	6,994	100	0	24
Dept. of Health & Human Services	303,414	40,436	0	5,382	201,628	55,326	642	9
Department of Interior	3,622	3,403	0	0	199	0	20	35
Department of Transportation	12,458	5,422	0	1,316	2,483	1,444	1,793	11
Environmental Protection Agency	56,170	45,476	0	7,590	3,014	90	0	3
Nat'l Aeronautics & Space Admin.	386,772	197,057	0	168,016	13,905	7,613	181	7
National Science Foundation	36,559	0	0	456	36,043	60	0	19
State rank	13	7	na	12	11	10	19	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable